Table 1: Assess how much variance is explained by transect

Urbanization = Distance to the City Center

Model: Ramets\_early ~ Block + (1 | Population) + (1 | Population:Fam\_uniq) + Transect\_ID + City\_dist + Transect\_ID:City\_dist

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Ramets before flowering: 2021 | Family | 0.022 | 7.598 | 52.455 | 1 | **<0.001** |
| Population | 0.095 | 25.152 | 0.000 | 1 | 0.5 |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Ramets before flowering: 2021 | Block | 54.589 | **<0.001\*\*\*** |
| Subtransect | 0.003 | 0.958 |
| Distance to City Center | 2.869 | 0.09 |
| Subtransect x Distance to City Center | 2.065 | 0.151 |

Table 3: Assess how much variance is explained by transect

Urbanization = Urbanization Score

Model: Ramets\_early ~ Block + (1 | Population) + (1 | Population:Fam\_uniq) + Transect\_ID + Urb\_score + Transect\_ID:Urb\_score

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Ramets before flowering: 2021 | Family | 0.025 | 8.478 | 52.333 | 1 | **<0.001** |
| Population | 0.097 | 25.536 | -0.001 | 1 | 0.5 |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Ramets before flowering: 2021 | Block | 56.675 | **<0.001\*\*\*** |
| Subtransect | 0.160 | 0.689 |
| Urbanization Score | 0.779 | 0.377 |
| Subtransect x Urbanization Score | 1.433 | 0.231 |